

Comparisons of Job Characteristics

Focus Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 65

Focus Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

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Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	17.1	12.4	<< Extensive education and/or training may be required
Design	5.2	13.2	7.6	<< Extensive education and/or training may be required
Public Safety and Security	6.9	12.7	10.4	< Expanded education and/or training may be required
Computers and Electronics	8.4	12.2	15.4	>> Current knowledge level is likely more than sufficient
Physics	4.3	10.1	4.5	<< Extensive education and/or training may be required
Telecommunications	3.9	10.0	19.3	>> Current knowledge level is likely more than sufficient
Engineering and Technology	5.7	9.3	9.4	0 Current knowledge level may be sufficient
Building and Construction	4.0	8.4	5.0	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

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Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Equipment Maintenance	3.5	11.4	10.3	< A higher skill level may be required

Repairing	3.4	11.1	10.6	0	Current skill level may be sufficient
Troubleshooting	4.5	10.7	11.8	>	Skill level is likely sufficient
Quality Control Analysis	5.9	10.2	11.5	>	Skill level is likely sufficient
Operation Monitoring	6.6	10.0	11.4	>	Skill level is likely sufficient
Equipment Selection	3.3	5.6	9.2	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 84				
Focus Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022) Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)						
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation		
Arm-Hand Steadiness	6.8	10.3	10.4	0	Current ability level may be sufficient	
Visualization	7.5	10.1	11.0	0	Current ability level may be sufficient	
Control Precision	6.6	10.0	9.4	0	Current ability level may be sufficient	
Selective Attention	8.7	10.0	9.0	<	Some improvement in abilities may be required	
Finger Dexterity	7.6	9.8	12.0	>	Current ability level is likely sufficient	
Manual Dexterity	6.5	9.4	11.4	>	Current ability level is likely sufficient	
Visual Color Discrimination	6.4	9.3	12.9	>>	Current ability level is likely more than sufficient	

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 83
Focus Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022) Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Clean equipment or machinery	20	
Distinguish colors	44	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install/connect electrical equipment to power circuit	57	
Maintain electrician's tools or equipment	92	
Perform safety inspections in industrial, manufacturing or repair setting	32	
Prepare site or surfaces for concrete or masonry work	76	
Read blueprints	10	
Read schematics	34	
Read technical drawings	7	

Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use interpersonal communication techniques	10
Use soldering equipment	44
Use two-way radio or mobile phone	42
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

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Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.